NC/QC/YPD/SIP-01/2017-18/SP-G1 Date: 10-03-2018

TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

Sub: To conduct tests on GSB (with close graded materials, Grade-II) mix.
{Project*: Improvements to Cross roads and drains at Srinivasapura.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TEST RESULTS

1. **Gradation Test:**

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
26.50	**96.25**	70-100
9.50	**73.45**	50-80
4.75	**56.30**	40-65
2.36	**38.10**	30-50
0.425	**13.05**	10-15
0.075	**3.90**	<5

*As Furnished by Client
The Results relate only to the items tested

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M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

Asst. Executive Engineer
Project Division
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Newzen Consultants Bangalore

Date: 10-03-2018

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Water absorption, %	**0.35 %**	Not more than 2.0 %
2.	Liquid Limit, %	**18.15**	Not more than 25.0 %
3.	Plasticity Index, %	**NP**	Not more than 6.0 %
4.	Moisture Content, %	**6.18**	----------
5.	Aggregate Impact Value, %	**25.08**	Not more than 40.00 %

*As furnished by Client.

Note: The Results relate only to the items tested

K.R

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NC/QC/YPD/SIP-01/2017-18/SP-C3 Date: 12-03-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to Cross roads and drains at Srinivasapura.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand : ULTRATECH
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**154 min**	Shall not be less than 30 min
2	Final setting time	**259min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.12 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.05 mm**	Shall not be more than 10 mm
5	Compressive strength b) 3 days (average of three results)	**29.42 N/Sq mm**	Shall not be less than 27 N/Sqmm

*As furnished by Client.
The Results relate only to the items tested.

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/QC/YPD/SIP-01/2017-18/SP-PCC2 **Date: 12-03-2018**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to Cross roads and drains at Srinivasapura.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**58.10**	0 -20	30- 70
10mm	**18.60**	0 -5	10- 35
4.75mm	**3.85**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**95.10**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**87.45**	60-95	75-100	85-100	
01.18	**64.75**	30-70	55-90	75-100	
600.mic	**44.00**	15-34	35-59	60-79	
300.mic	**12.30**	5-20	8-30	12-40	
150.mic	**7.10**	0-10	0-10	0-10	

*As Furnished by Client.
The Results relate only to the items tested.

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Page No. 1/1,

For Newzen Consultants Bangalore

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NC/QC/YPD/SIP-01/2017-18/SP-CB3

Date: 24-03-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to Cross roads and drains at Srinivasapura.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	17-03-18	24-03-18	07	22500	380	16.89	**17.19**
	002	"	"	"	"	395	17.56	
	003	"	"	"	"	385	17.11	

*As Furnished by Client.
The Results relate only to the items tested.

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NC/QC/YPD/SIP-01/2018-19/SP-CB3A

Date: 14-04-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to Cross roads and drains at Srinivasapura.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	17-03-18	14-04-18	28	22500	515	22.89	**23.26**
	002	"	"	"	"	525	23.33	
	003	"	"	"	"	530	23.56	

*As Furnished by Client.
The Results relate only to the items tested.

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NC/QC/YPD/SIP-01/2017-18/SP-G2 Date: 21-03-2018

TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

Sub: To conduct tests on GSB (with close graded materials, Grade-II) mix.
{Project*: Improvements to Cross roads and drains at Srinivasapura.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TEST RESULTS

1. Gradation Test:
TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
26.50	**98.10**	70-100
9.50	**75.30**	50-80
4.75	**61.05**	40-65
2.36	**37.60**	30-50
0.425	**13.20**	10-15
0.075	**4.10**	<5

*As Furnished by Client
The Results relate only to the items tested

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Newzen Consultants Bangalore

Date: 21-03-2018

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Water absorption, %	**0.34%**	Not more than 2.0 %
2.	Liquid Limit, %	**17.95**	Not more than 25.0 %
3.	Plasticity Index, %	**NP**	Not more than 6.0 %
4.	Moisture Content, %	**6.02**	----------
5.	Aggregate Impact Value, %	**24.12**	Not more than 40.00 %

*As furnished by Client.

Note: The Results relate only to the items tested

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NC/QC/YPD/SIP-01/2017-18/SP-W1 Date: 23-03-2018

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements to Cross roads and drains at Srinivasapura.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**98.45**	95-100
26.50	**---**	-
22.40	**71.05**	60-80
11.20	**46.60**	40-60
4.75	**31.00**	25-40
2.36	**22.75**	15-30
0.600	**18.30**	8-22
0.075	**3.45**	0-5

*As Furnished by Client
The Results relate only to the items tested

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Newzen Consultants Bangalore

Date: 23-03-2018

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**25.12 %**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**26.03 %**	Not more than 35.0 %
3.	Water absorption, %	**0.40 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

*As furnished by Client.

Note: The Results relate only to the items tested

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